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Notice of Allowability

Application No.

10/682,330

Examiner

Farhan M. Syed

Applicant(s)

GHATARE, SANJAY P.

Art Unit

2165

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/30/07.
2. ☒ The allowed claim(s) is/are 1-5,7,9-12,14-17,19,21-23,25,26 and 28.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
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DETAILED ACTION

1. Claims 1-46 are pending.
2. The Examiner acknowledges the cancellation of claims 6, 8, 18, 20, 24, 27, and 29-46

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. William J. Daley (Reg. No. 52,471) on 26 November 2007.

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows:

1. (Currently Amended) A method for partitioning, comprising: receiving a data access request from an Identity and Access System, said data access request includes a filter, said filter includes one or more variables in a first format; determining one or more data

Art Unit: 2165

stores of a plurality of data stores to service said data access request, said step of determining includes accessing one or more mappings of said one or more variables to said plurality of data stores~ and using said mappings to evaluate partition expressions for said data stores, wherein using said mappings to evaluate partition expressions for said data stores includes determining whether said filter overlaps with said partition expressions based on said mappings by performing a partition compare function using said filter and a first partition expression to determine whether said filter overlaps with said first partition expression if said filter and said first partition expression are both simple expressions and performing said partition compare function by treating said filter as an input partition expression and treating said first partition expression as an input filter in order to determine whether said filter overlaps said first partition expression if said first partition expression is a composite expression, and wherein said plurality of data stores comprises at least one relational database and at least one Lightweight Directory Access Protocol (LDAP) directory; and sending information for said data access request to said one or more data stores determined to service said data access request.

13. (Canceled).

21. (Currently Amended) One or more processor readable storage devices having processor readable code embodied on said processor readable storage devices, said processor readable code for programming one or more processors to perform a method

comprising: receiving a data access request from an Identity and Access System, said data access request includes a filter, said filter includes one or more variables in a first format; determining one or more data stores of a plurality of data stores to service said data access request, said step of determining includes accessing one or more mappings of said one or more variables to said plurality of data stores~ and using said mappings to evaluate partition expressions for said data stores, wherein using said mappings to evaluate partition expressions for said data stores includes determining whether said filter overlaps with said partition expressions based on said mappings by performing a partition compare function using said filter and a first partition expression to determine whether said filter overlaps with said first partition expression if said filter and said first partition expression are both simple expressions and performing said partition compare function by treating said filter as an input partition expression and treating said first partition expression as an input filter in order to determine whether said filter overlaps said first partition expression if said first partition expression is a composite expression, and wherein said plurality of data stores comprises at least one relational database and at least one Lightweight Directory Access Protocol (LDAP) directory; and sending information for said data access request to said one or more data stores determined to service said data access request.

25. (Currently Amended) An apparatus that can partition, comprising: one or more storage devices; and one or more processors in communication with said one or more storage devices, said one or more processors perform a method comprising: accessing

a data access request from an Identity and Access System, said data access request includes a filter, said filter includes one or more variables in logical object class format, determining one or more data stores of a plurality of data stores to service said data access request, said step of determining includes accessing one or more mappings of said one or more variables to said plurality of data stores~ and using said mappings to evaluate partition expressions for said data stores, wherein using said mappings to evaluate partition expressions for said data stores includes determining whether said filter overlaps with said partition expressions based on said mappings by performing a partition compare function using said filter and a first partition expression to determine whether said filter overlaps with said first partition expression if said filter and said first partition expression are both simple expressions and performing said partition compare function by treating said filter as an input partition expression and treating said first partition expression as an input filter in order to determine whether said filter overlaps said first partition expression if said first partition expression is a composite expression, and wherein said plurality of data stores comprises at least one relational database and at least one Lightweight Directory Access Protocol (LDAP) directory, and sending information for said data access request to said one or more data stores determined to service said data access request.

28. (Currently Amended) An apparatus that can partition a data access request, said data access request includes a filter, said filter includes one or more variables in a first format, comprising: means for determining one or more data stores of a plurality of data

Art Unit: 2165

stores to service said data access request from an Identity and Access System, said step of determining includes accessing one or more mappings of said one or more variables to said plurality of data stores~ and using said mappings to evaluate partition expressions for said data stores, wherein using said mappings to evaluate partition expressions for said data stores includes determining whether said filter overlaps with said partition expressions based on said mappings by performing a partition compare function using said filter and a first partition expression to determine whether said filter overlaps with said first partition expression if said filter and said first partition expression are both simple expressions and performing said partition compare function by treating said filter as an input partition expression and treating said first partition expression as an input filter in order to determine whether said filter overlaps said first partition expression if said first partition expression is a composite expression, and wherein said plurality of data stores comprises at least one relational database and at least one Lightweight Directory Access Protocol (LDAP) directory; and means for sending said data access request to said one or more data stores determined to service said data access request.

Allowable Subject Matter

5. Claims 1-5, 7, 9-12, 14-17, 19, 21-23, 25, 26, and 28 are allowed over the prior art of record.

Reason for Allowance

6. The following is an examiner's statement of reason for allowance: The closest prior art of record Burroughs et al (U.S. Patent No. 6,341,289), Shiigi et al (U.S. Patent Pub. 2003/0014442 A1), and Mullins (U.S. Patent No. 6,999,956) does not disclose, suggest, or teach the claimed limitations of (in combination with all other features in the claim), A method for partitioning, comprising: receiving a data access request from an Identity and Access System, said data access request includes a filter, said filter includes one or more variables in a first format; determining one or more data stores of a plurality of data stores to service said data access request, said step of determining includes accessing one or more mappings of said one or more variables to said plurality of data stores~ and using said mappings to evaluate partition expressions for said data stores, wherein using said mappings to evaluate partition expressions for said data stores includes determining whether said filter overlaps with said partition expressions based on said mappings by performing a partition compare function using said filter and a first partition expression to determine whether said filter overlaps with said first partition expression if said filter and said first partition expression are both simple

expressions and performing said partition compare function by treating said filter as an input partition expression and treating said first partition expression as an input filter in order to determine whether said filter overlaps said first partition expression if said first partition expression is a composite expression, and wherein said plurality of data stores comprises at least one relational database and at least one Lightweight Directory Access Protocol (LDAP) directory; and sending information for said data access request to said one or more data stores determined to service said data access request.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Farhan M. Syed whose telephone number is 571-272-7191. The examiner can normally be reached on 8:30AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christian Chace can be reached on 571-272-4190. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/682,330
Art Unit: 2165

Page 9

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A handwritten signature in black ink, appearing to read 'Christian Chace', followed by a long horizontal line extending to the right.

CHRISTIAN CHACE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100